Introduced	
Public Hearing —	
Council Action —	
Executive Action	
Effective Date -	

County Council Of Howard County, Maryland

2005 Legislative Session Legislative Day No. 3

Bill No. 4-2005

Introduced by: The Chairman at the request of the County Executive

AN ACT amending the Building Code of Howard County; changing the term "floodplain district" to the term "floodplain"; amending the requirements for work exempt from a permit; amending insulation requirements; correcting chapter references; making technical corrections; and generally relating to the Howard County Building Code.

Introduced and read first time	, 2005. Ordered posted and hearing scheduled.	
	By orderSheila M. Tolliver, Adminis	trator
Having been posted and notice of time & place of for a second time at a public hearing on	hearing & title of Bill having been published according to Charter, t, 2005.	he Bill was read
	By order Sheila M. Tolliver, Adminis	trator
This Bill was read the third time on	_, 2005 and Passed, Passed with amendments, Failed _	·
	By order Sheila M. Tolliver, Adminis	trator
Sealed with the County Seal and presented to the a.m./p.m.	County Executive for approval thisday of, 2005	at
	By order Sheila M. Tolliver, Adminis	trator
Approved by the County Executive	, 2005	
	James N. Robey, County Ex	ecutive

NOTE: [[text in brackets]] indicates deletions from existing law; TEXT IN ALL CAPITALS indicates additions to existing law; Strike-out indicates material deleted by amendment; Underlining indicates material added by amendment.

1	Secti	on 1. B	e It En	acted	by the C	ounty Council of Howard County, Maryland, that
2	Subp	aragrap	hs (ii) d	and ite	m d. of S	Subparagraph (iv) of Paragraph 24 and Paragraph 68
3	of Subsection (a) of Section 3.101 "Local Amendments to the International Building					
4	Code, 2003 Edition" of Subtitle 1 "Building Code" of Title 3 "Buildings" are amended					
5	to re	ad as fol	llows:			
6						
7						Title 3. Buildings.
8					Sub	otitle 1. Building Code.
9	Secti	on 3.10	1. Loca	al Amo	endmen	ts to the International Building Code, 2003 Edition.
10	(a)	(24)	Subse	ection	105.2 W	ork Exempt from Permit.
11			(ii)	In It	em 4, de	elete "4 feet" and substitute "3 feet" AND DELETE
12				"BC	MOTTO	OF THE FOOTING" AND SUBSTITUTE "LOWEST
13				ADJ	ACENT	GRADE";
14			(iv)	Add	the follo	owing as exception (14) under "building" at the end of
15				this	subsecti	on:
16				The	followin	ng work on an existing single family dwelling:
17				d.	Site	work:
18					i.	Paving a driveway;
19					ii.	Installation of a patio, sidewalk, or landscaping;
20					iii.	Installation of a retaining wall that is 3 feet or less
21						in height MEASURED FROM THE LOWEST
22						ADJACENT GRADE TO THE TOP OF THE
23						WALL; or
24					iv.	Installation of a flagpole or flagpole base.
25						
26		(68)	Section	on 311	0 Flood _l	plain [[District]]. Add new section 3110 after section
27			3109	as foll	ows:	
28			Secti	on 311	10 Flood	lplain [[District]].
29			3110.	.1 Gen	eral. Fo	or the purpose of this section, the floodplain [[district]]
30			is des	cribed	in Title	16, Subtitle 7 of the Howard County Code.
31			3110.	.2 Wit	hin Desi	ignated Floodplain [[District]].

The construction, reconstruction, modification, alteration, repair, or 1 2 improvement of a building, mobile home, or other structure located within 3 a designated floodplain [[district]] shall be done in accordance with the requirements set forth in subsections 3110.2 through [[3110.7]] 3110.9. 4 **3110.2.1 New construction.** New residential or nonresidential 5 6 construction shall not occur within a designated floodplain [[district]]. 7 **Exception #1**: Except for mobile homes, an existing nonconforming 8 structure located in a designated floodplain [[district]] which is destroyed 9 by fire, flood, or other calamity may be restored to the same size and 10 dimension and in the same location on the same lot as the destroyed structure, provided construction begins within 12 months of the date of 11 12 destruction. Construction shall comply with the requirements of subsection [[3107.4]] 3110.4 for new construction adjacent to a floodplain 13 14 [[district]] (elevating or floodproofing). Variances to the requirements set 15 forth in subsection [[3107.4]] 3110.4 may be granted by the building 16 official in accordance with FEMA regulations, Section 60.6(A)(1), (3)(4)(5) and (6). The intentional demolition and reconstruction of any 17 18 nonconforming structure is prohibited by this code. 19 **Exception #2**: Transportation networks, utility installations, piers, open 20 pier structures, and open decks approved by the department of public 21 works. Streets, sidewalks, pathways, and utility systems in accordance 22 with the Howard County Design Manual and all other applicable codes, 23 ordinances, resolutions and regulations. 24 3110.2.2 Additions and enlargements. An existing nonconforming 25 structure located in the floodplain [[district]] shall not be expanded or enlarged. 26 27 **3110.2.3 Modifications, alterations, and repairs.** A modification, 28 alteration, repair, or improvement that costs less than 50% of the fair 29 market value of the structure may be made to an existing nonconforming 30 structure located in a designated floodplain [[district]] without 31 floodproofing or elevating if the owner demonstrates through a Maryland

1	state registered professional engineer that floodproofing or elevating is
2	impractical.
3	3110.3 Substantial improvements within the floodplain [[district]].
4	Substantial improvements within the floodplain [[district]] shall meet the
5	standards set forth in this subsection.
6	3110.3.1. Residential. The lowest floor, including a basement, of a
7	substantial improvement to an existing nonconforming residential
8	structure located within a designated floodplain [[district]] shall be
9	elevated to at least 2 feet above the 100-year flood elevation.
10	3110.3.2. Nonresidential. The lowest floor, including a basement, of a
11	substantial improvement to an existing nonconforming nonresidential
12	structure shall be elevated to at least 2 feet above the 100-year flood
13	elevation or shall be designed so that any area of the building which is
14	lower than 2 feet above the 100-year flood elevation as determined or
15	approved by the department of public works, is watertight with walls
16	substantially impermeable to the passage of water and with structural
17	components having the capability of withstanding applicable hydrostatic,
18	hydrodynamic, impact, soil, and, when applicable, hurricane and tidal
19	wave loading conditions. The water tightness and structural capabilities
20	shall be those described in floodproofing regulations published by the
21	Office of the Chief of Engineers, U.S. Army, Washington, D.C., March
22	1992.
23	3110.4 Construction Adjacent to a Floodplain [[District]]. Where a
24	building is located adjacent to a designated [[floodplain district,]]
25	FLOODPLAIN, defined in Title 16, Subtitle 7, the following subsections
26	shall apply:
27	3110.4.1 Residential. In new construction of a residential building or an
28	addition or substantial improvement to a residential building, all floors,
29	including those of basement and storage areas, shall be elevated at least 2
30	feet above the 100-year flood level.

1	3110.4.2 Nonresidential. In new construction of a nonresidential
2	building or an addition, or substantial improvement to a nonresidential
3	building, either:
4	(i) All floors (including those of basement and storage areas) shall be
5	elevated at least 2 feet above the 100-year flood level as
6	determined or approved by the department of public works; or
7	(ii) The construction or improvement (including attendant utility or
8	sanitary facilities) shall be designed so that any area of the building
9	which is lower than 2 feet above the 100-year flood elevation as
10	determined by the department of public works, is watertight with
11	walls substantially impermeable to the passage of water and with
12	structural components having the capability of withstanding
13	applicable hydrostatic, hydrodynamic, impact, soil, and, when
14	applicable, hurricane and tidal wave loading conditions. Electrical,
15	heating, ventilation, plumbing, air conditioning equipment, and
16	other service facilities associated with the buildings shall be
17	designed or located to prevent water from entering or accumulating
18	within the components during flood conditions. The water
19	tightness and structural capabilities shall be those described in
20	floodproofing regulations published by the Office of the Chief of
21	Engineers, U.S. Army, Washington, D.C., March 1992.
22	3110.4.3. Modifications, Alterations or Repairs. A modification,
23	alteration, repair, or improvement that costs less than 50% of the fair
24	market value of the structure may be made to an existing nonconforming
25	structure located adjacent to a designated floodplain [[district]] without
26	floodproofing or elevating.
27	3110.5 Substantial Improvements ADJACENT TO A FLOODPLAIN.
28	3110.5.1 Residential. The lowest floor, including a basement, of a
29	substantial improvement to an existing nonconforming residential
30	structure located adjacent to a designated floodplain [[district]] shall be
31	elevated to at least 2 feet above the 100-year flood elevation.

1 **3110.5.2 Nonresidential.** The lowest floor, including a basement, of a 2 substantial improvement to an existing nonconforming nonresidential 3 structure located adjacent to a designated floodplain [[district]] shall be elevated to at least 2 feet above the 100-year flood elevation or, shall be 4 5 designed so that any area of the building which is lower than 2 feet above 6 the 100-year flood elevation as determined or approved by the department of public works, is watertight with walls substantially impermeable to the 7 8 passage of water and with structural components having the capability of 9 withstanding applicable hydrostatic, hydrodynamic impact, soil and when 10 applicable, hurricane and tidal wave loading conditions. Electrical, heating, ventilation, plumbing and air conditioning equipment, and other 11 12 service facilities associated with the buildings shall be designed or located so as to prevent water from entering or accumulating within the 13 14 components during conditions of flooding. The water tightness and 15 structural capabilities shall be those described in floodproofing regulations 16 published by the Office of the Chief of Engineers, U.S. Army, Washington, D.C., March 1992. 17 18 **3110.6 Verification.** For the purpose of verifying compliance with section [[3107.0]] 3110.4, the following shall apply: 19 20 (i) When floodproofing by means other than elevating, a document stating that the proposed construction has been adequately 21 22 designed to withstand the loading conditions stated in subsection 23 [[3107.4.2(b)]] 3110.4.2(II) shall be certified by a professional 24 engineer or architect currently registered in Maryland. This 25 document shall be required prior to issuance of a building permit. 26 (ii) 27

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(ii) When floodproofing by elevating is utilized, the owner shall agree, in writing, to provide a FEMA Elevation Certificate Form #81-31 completed by a professional engineer or professional land surveyor currently registered in Maryland, certifying that the as-built lowest floor of the structure is elevated at least 2 feet above the 100-year floodplain elevation. The agreement shall be made prior to the

1	issuance of the building permit and the completed certification
2	shall be submitted prior to foundation approval by the Howard
3	County Building [[Inspector]] OFFICIAL.
4	(iii) Fair market value of a structure shall be established by a recent
5	(within 6 months) formal appraisal from a qualified appraiser. Fair
6	market value shall not include land value.
7	(iv) Cost to repair or improve a structure shall be established by recent
8	(within 6 months) written estimate from a licensed contractor and
9	shall include the complete cost of repair or improvement to the
10	point of use or occupancy.
11	3110.7 Definitions.
12	Accessory structure. A detached structure on the same parcel or property
13	as the principal structure that has a use which is incidental to the principal
14	structure including, but not limited to a shed or detached garage.
15	Basement. An enclosed area which is below grade on all sides.
16	Floodplain [[district]]. All areas subject to inundation by waters of the
17	100-year FLOOD. [[flood, designated as "FP District" and shown as an
18	overlay on the zoning map.]] The source of this delineation shall be the
19	[[type 15 flood insurance study for Howard County, Maryland by the U.S.
20	Department of Housing and Urban Development, Federal Insurance
21	Administration,]] FLOOD INSURANCE STUDY AND FLOOD
22	INSURANCE RATE MAPS, PREPARED FOR HOWARD COUNTY
23	BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY or
24	[[any 100-year ultimate floodplain delineation determined by]] THE
25	FLOODPLAIN STUDIES AND REQUIREMENTS OF the department of
26	public works AND THE DEPARTMENT OF PLANNING AND
27	ZONING, WHICHEVER IS MORE RESTRICTIVE.
28	Floodproofing. Any combination of additions, changes, or adjustments to
29	a structure which reduce or eliminate flood damage to real estate or
30	improved real property, water and sanitary facilities, or structures and their
31	contents.

1 *Historic structure*. A building listed on the National Register of Historic 2 Places, a state inventory of historic places, or an inventory of historic 3 structures adopted by resolution of the County Council. Lowest floor. The lowest floor or the lowest enclosed area, including a 4 basement. Lowest floor does not include an unfinished or flood resistant 5 6 enclosure used solely for parking vehicles, building access, or storage in 7 an area other than a basement area. The enclosure shall not be built so as 8 to render the structure in violation of the applicable non-elevation design 9 requirements of subsections [[3107.4.2]] 3110.4 and [[3107.6]] 3110.6 of this Code. 10 11 **Mobile home.** A transportable residential structure that is built on a 12 permanent chasis and is designed for use with or without a permanent foundation when connected to the required utilities. 13 14 **New construction.** A structure for which the application for a building 15 permit was received by the department on or after the date of adoption of 16 this subsection, including any subsequent improvements. The repair or replacement of a mobile home because of substantial damage is 17 18 considered to be new construction. 19 Substantial damage: Damage of any origin sustained by a structure where 20 the cost of returning the structure to its condition prior to damage would equal or exceed 50% of its market value before the damage occurred. 21 22 **Substantial improvement.** The repair, reconstruction, or improvement of 23 a building or structure, the cost of which is equal to or greater than 50% of 24 the market value of the building or structure prior to damage, 25 improvement, or repair. For the purpose of this definition, "substantial improvement" occurs when the first alteration of a wall, ceiling, floor, or 26 27 other structural part of the building begins, whether or not that alteration 28 affects the external dimensions of the building or structure. The term does 29 not include any project for improving a building or structure to comply 30 with existing state or local health, sanitary, or housing code requirements

1		which are necessary to assure safe living conditions. This term does not			
2		include an alteration of a historic structure.			
3		Variance. The grant of relief from a term of this subtitle.			
4		3110.8 Variances and Waivers. A variance or waiver of this section			
5		shall not be allowed.			
6		3110.9 OTHER AGENCIES. A PERMIT ISSUED BY THE			
7		BUILDING OFFICIAL UNDER THIS SUBTITLE IS NOT VALID			
8		UNTIL ALL NECESSARY PERMITS FOR THE DEVELOPMENT			
9		ARE OBTAINED. RECEIPT OF FEDERAL OR STATE PERMITS			
10		DOES NOT EXEMPT A DEVELOPMENT FROM THE PROVISIONS			
11		OF THIS SUBTITLE.			
12	~ .				
13		on 2. And Be It Further Enacted by the County Council of Howard County,			
14	Maryland, that Paragraphs 28, 29 and 30 of Subsection (b) of Section 3.102				
15	"Amendments to the International Residential Code, 2003 Edition" of Subtitle 1				
16	"Buile	ding Code" of Title 3 "Buildings" is amended to read as follows:			
17					
18		Title 3. Buildings.			
19		Subtitle 1. Building Code.			
20	Section	on 3.102. Amendments to the International Residential Code, 2003 Edition.			
21					
22	(28)	TABLE N1102.1. SIMPLIFIED PRESCRIPTIVE BUILDING ENVELOPE			
23		THERMAL COMPONENT CRITERIA MINIMUM REQUIRED THERMAL			
24		PERFORMANCE (U-FACTOR AND R-VALUE).			
25		IN CLIMATE ZONE 10, HDD 4,500-4,999, IN THE CELL WHICH			
26		INDICATES THE MINIMUM INSULATION R-VALUE FOR WALLS,			
27		STRIKE "R-16" AND SUBSTITUTE "R-13".			
28	[[(28)]] (29) Subsection [[R1401.1.1]] M1401.1.1 HVAC Permit Required.			
29		Add new subsection [[R1401.1.1]] M1401.1.1 after subsection [[1401.1]]			
30		M1401.1 as follows:			

1	[[R140	[1.1.1]	J M140	1.1.1 HVAC Permit Required. A HVAC permit is required
2	for eve	ry sys	tem ins	talled in a new single family dwelling or new single family
3	additio	n.		
4	[[(29)]] (30)	Subs	ection	[[R1401.3.1]] M1401.3.1 Plans and Information Required.
5	Add new subsection [[R1401.3.1]] M1401.3.1 after subsection [[1401.3]]			
6	M1401.3 as follows:			
7	[[R1401.3.1]] M1401.3.1 Plans and Information Required. Each permit			
8	application shall be accompanied by a simplified, but accurate, plan drawn to			
9	scale which shall include:			
10		(i)	An ir	nformation block with:
11			a.	The specific building address (not lot number);
12			b.	Company name doing work;
13			c.	Licensee name and signature;
14			d.	State license registration number;
15			e.	Scale used; and
16			f.	North arrow;
17		(ii)	A roo	om, window, exterior door, or other relevant construction
18			featu	re including, but not limited to, a skylight, porch, attic access
19			to eq	uipment that may affect the integrity of the HVAC system and
20			its in	stallation; and
21		(iii)	A lin	e drawing of HVACR system components superimposed on
22			the p	lan showing the location, dimension, and relevant elements,
23			inclu	ding, but not limited to:
24			a.	Interior or exterior HVACR equipment;
25			b.	Duct truck lines and transitions;
26			c.	Branch ducts/run-outs, dampers and registers with CFM
27				ratings;
28			d.	Thermostats;
29			e.	Return ducts and grills;
30			f.	Duct insulation; and
31		(iv)	Manı	al J calculations for the proposed work.

1 [[(30)]] (31) Chapters 24 through [[24]] 42. Delete these chapters.

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- 3 Section 3. And Be It Further Enacted by the County Council of Howard County,
- 4 Maryland, that this Act shall become effective 61 days after its enactment.

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